

**New Hampshire Climate Change Policy Task Force
Working Group Interim Report**

List of Actions under Consideration

**Prepared by NHDES
April 21, 2008**

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New Hampshire Climate Change Policy Task Force Adaptation (ADP) Working Group Interim Report

The following document contains the *proposed final list of goals and actions* that will be developed and submitted by the **Adaptation Working Group** for consideration by the Climate Change Policy Task Force.

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Goals and Actions:

ADP Goal 1 - Impact Information Development and Dissemination

- Action 1.1 Develop Resources to track potential and actual impacts from Climate Change scenarios
- Action 1.2 Develop Partnership to Address Information and Planning Needs

ADP Goal 2 - Focus policies and actions to help most at risk populations

- Action 2.1 Expand public transit modes
- Action 2.2 Modify the NH constitution to Fund Transportation Adaptation
- Action 2.3 Prepare for air quality changes and related respiratory considerations

ADP Goal 3 - Empower public health officials

- Action 3.1. Prepare for heat waves and temperature extremes.

ADP Goal 4 - Strengthen state and local protection of New Hampshire's natural services network

- Action 4.1 Preserve 75% of all federally designated farm land
- Action 4.2 Protect potable drinking water systems. Improve the management of groundwater as population and demand grow
- Action 4.3 Preserve floodplains and wetlands to ensure the integrity of their ecological functions, especially as they relate to flood control

ADP Goal 5 - Increase resistance to extreme weather events

- Action 5.1 Guide future development away from most vulnerable flood prone areas.
- Action 5.2 Render the existing built environment more resilient to weather related impacts
- Action 5.3 Require consideration of Climate Change guidelines in building codes for regional, municipal, and urban planning
- Action 5.4 Explore ways to move existing development out of harms way and create retreat policies for areas impacted by sea level rise and flooding

ADP Goal 6 - Strengthen the New Hampshire economy

- Action 6.1 Provide incentives for existing businesses to adapt to Climate Change, anticipating the effects on key industries in the state
- Action 6.2 Provide incentives, investments and technical assistance to new business development focused on adaptive technologies and services
- Action 6.3 Invest in infrastructure that will support the current businesses in our state in adapting to Climate Change

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ADP Goal 7 - Permanently establish a Climate Change Advisory Council.

Action 7.1 Develop specific recommendations for Climate Change Adaptation strategies, processes, and policies

Action 7.2 Direct relevant state agencies to establish an interagency Climate Change Team

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New Hampshire Climate Change Policy Task Force Agriculture, Forestry and Waste (AFW) Working Group Interim Report

This document contains the *proposed final list of goals and actions* that will be developed and submitted by the **Agriculture, Forestry and Waste Working Group** for consideration by the Climate Change Policy Task Force.

Facilitator: Sharon Yergeau (syergeau@des.nh.gov or 271-2918);

Goal and Action List

AFW Goal 1 - Carbon Sequestration

- Action 1.1 Research Forest Management and Sequestration
- Action 1.2 Build Up Soil Carbon
 - Action 1.2.1 Increase Cover Crops
 - Action 1.2.2 Improve Water and Nutrient Use
 - Action 1.2.3 Increase Conservation Tillage/No-Till Farming Practices
- Action 1.3 Land Protection
 - Action 1.3.1 Agriculture Land Protection
 - Action 1.3.2 Forested Land Protection
- Action 1.4 Forest Management
 - Action 1.4.1 Durable Wood Product Promotion
 - Action 1.4.2 Enhance Carbon Sequestration
 - Action 1.4.3 Provide Guidance on Carbon Sequestration and Biomass Harvesting to Land Owners and Professional Foresters

AFW Goal 2 - Fuel and Electricity Generation

- Action 2.1 Waste-to-Energy
 - Action 2.1.1 Clean Municipal Biomass Waste
 - Action 2.1.2 Biogas
 - 2.1.2.1 Landfill Gas
 - 2.1.2.1.1. Energy Project Development
- Action 2.2 Encourage Sustainable Biofuel Crop Production
 - Action 2.2.1 Assure the Appropriate Maintenance and Expanded Use of Forest Biomass Feedstocks for Electricity (Fuel Switching)
 - Action 2.2.2 Expanded Use of Forest Biomass Feedstocks for RCI Heating

AFW Goal 3 - Recycling and Source Reduction

- Action 3.1 Increased Recycling and Source Reduction
 - Action 3.1.1 Pay-as-you-Throw Initiative
 - Action 3.1.2 Encourage Bioreactors

AFW Goal 4 - Regional, State and Local Food Supply

- Action 4.1 Strengthen Local Food Network

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New Hampshire Climate Change Policy Task Force Electricity Generation & Use (EGU) Working Group Interim Report

The following document contains the *proposed final list of goals and actions* that will be developed and submitted by the **Electricity Generation and Use Working Group** for consideration by the Climate Change Policy Task Force.

Facilitators: Joe Fontaine (joseph.fontaine@des.nh.gov or 271-6794); and
Charlie Martone (charles.martone@des.nh.gov or 271-1089)

Goal and Action List

EGU Goal 1 - Increase Demand Response, Energy Efficiency, and clean Combined Heat & Power

- Action 1.1 Evaluate decoupling utility sales from revenues; continue to factor energy efficiency into rates
- Action 1.2 Evaluate a Least Cost Procurement policy to purchase cost-effective “demand-side” resources, rather than building new large supply capacity
- Action 1.3 Evaluate establishment of a Combined Heat & Power (CHP) Portfolio Standard
- Action 1.4 Evaluate other options to encourage demand response, energy efficiency, and CHP

EGU Goal 2 - Reduce supply-side direct emissions from existing generation and build new renewable generation

- Action 2.1 Implement the Renewable Portfolio Standard (RPS); evaluate future more stringent standards
- Action 2.2 Implement the Regional Greenhouse Gas Initiative (RGGI); evaluate future more stringent caps
- Action 2.3 Evaluate a New Source Performance Standard (NSPS) for new fossil fuel fired power plants
- Action 2.4 Implement an improved Energy Facilities siting process that identifies/eliminates barriers (e.g., transmission constraints) to building new renewable generation
- Action 2.5 Seek additional ways to encourage new renewable generation (e.g., eliminate barriers to allow new decentralized renewable energy projects)
- Action 2.6 Evaluate retention of existing nuclear power generation

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New Hampshire Climate Change Policy Task Force Residential, Commercial and Industrial (RCI) Working Group Interim Report

The following document contains the *proposed list of goals and actions* that is currently being developed and will be submitted by the **Residential, Commercial and Industrial Working Group** for consideration by the Climate Change Policy Task Force.

Facilitators: Michele Andy (michele.andy@des.nh.gov or 271-6793)
Tom Franks (tom.franks@nh.gov or 271-1759)

Goal and Action List:

RCI Goal 1 - Maximize Efficiency in New Construction and Existing Buildings

- Action 1.1 Maximize Efficiency in New Construction
- Action 1.2 Maximize Efficiency in Existing Conditioned Buildings - Residential
- Action 1.3 Maximize Efficiency in Existing Conditioned Buildings – Commercial & Industrial
- Action 1.4 Upgrade Building Energy Codes & Increase Code Compliance
- Action 1.5 Establish an Energy Properties Section in MLS Listings
- Action 1.6 Establish a Comprehensive Energy Efficiency and Renewable Energy Education and Demonstration Center

RCI Goal 2 - Maximize Efficiency in Commercial, Industrial and Municipal (CIM) Processes

- Action 2.1 Maximize Efficiency in CIM Processes - Incentive Programs to Install Premium Efficiency Equipment
- Action 2.2 Maximize Efficiency in CIM Processes - Incentive Program to Promote Light Harvesting and Waste Heat Recycling
- Action 2.3 Mandatory CO2 Reporting for CIM facilities

RCI Goal 3 - Install Renewable Thermal Systems and Low CO₂e Thermal Systems

- Action 3.1 Thermal Renewable Portfolio Standard
- Action 3.2 Thermal Systems Benefits Charge

RCI Goal 4 - Education/Behavior Changes

- Action 4.1 Energy Efficiency and Conservation in School Curriculum
- Action 4.2 Maximize Efficiency through Building Management Programs
- Action 4.3 Residential Behavior Change Programs

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New Hampshire Climate Change Task Force Land Use and Transportation (TLU) Workgroup Interim Report

The following document contains the *proposed list of goals and actions* that is currently being developed and will be submitted by the **Land Use and Transportation Working Group** for consideration by the Climate Change Policy Task Force.

Facilitators: Rebecca Ohler (Rebecca.Ohler@des.nh.gov or 271-6749)
Carolyn Russell (Carolyn.Russell@des.nh.gov or 271-3010)

Goal and Action List

TLU Goal 1 - Reduce Vehicle Emissions per Vehicle Mile Traveled

TLU Goal 1.A - Influence the Vehicle Market through Regulatory Standards

- Action 1.A.1. More Stringent Corporate Average Fuel Economy Standards (CAFE)
- Action 1.A.2. Federal Fuel Economy Standards or Incentives for Medium and Heavy Duty Vehicles.
- Action 1.A.3. Adopt California Low Emission Vehicle standards in NH, including the GHG tailpipe standards established by the Pavley Bill.

TLU Goal - 1.B: Influence Consumer Demand for Higher Fuel Economy Vehicles.

- Action 1.B.1 Incentives at Point of Purchase for More Efficient Vehicle.
- Action 1.B.2. Establish a Carbon-Based Annual Registration Fee.

TLU Goal 1.C - Increase the Use of Cleaner Fuels & Advanced Technologies

- Action 1.C.1. Establish a Low Carbon Fuel Standard for region and adopt in NH.
- Action 1.C.2. Promote Adoption of New Vehicle Technology.
- Action 1.C.3. Reduce Diesel Particulate Emissions.

TLU Goal 1.D - Decrease GHG Via Changes in Driver Behavior

- Action 1.D.1. Speed limits
 - Action 1.D.2.1. Enforce Current Speed Limits on Highways
 - Action 1.D.2.2. Lower Posted Speed Limits on Highways
 - Action 1.D.2.3. Maintain Travel Speeds on Rural and Arterial Roadways
- Action 1.D.2. Reduce Idling.
 - Action 1.D.2.1. Truck Idling Reduction
 - Action 1.D.2.2. Locomotive Idling Reduction
 - Action 1.D.2.3. Prohibit Idling in School Zones and at Draw Bridges.
- Action 1.D.3. Improve Traffic Flow.
- Action 1.D.4. Motor Vehicle On-Board Diagnostics Inspection Programs
 - Action 1.D.4.1. Light Duty/Passenger Vehicle OBD Inspections
 - Action 1.D.4.2. Medium and Heavy Duty Vehicle OBD Inspections

TLU Goal 2 - Reduce Vehicle Miles Traveled

TLU Goal 2.A - Change Consumer Behavior to Reduce Travel Demand

- Action 2.A.1. Commuting Trip Reduction Initiative
- Action 2.A.2. Congestion Pricing
- Action 2.A.3. Vehicle Miles Traveled-Based Insurance Premium Structure

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- Action 2.A.4. Vehicle Miles Traveled-Based Car Registration Fees
- Action 2.A.5. Increase the Gas Tax (and Change Constitution)
- Action 2.A.6. Add a Carbon Surcharge on all Fuel Sales
- Action 2.A.7. Reduce Parking Availability/Eliminate Free/Cheap Public Parking

TLU Goal 2.B - Establish a Balanced, Integrated, Multi-modal Transportation System

- Action 2.B.1. Increase the Use of Alternative Modes for Local/Intra-city Travel
 - Action 2.B.1.a. Expand Local Transit System Service
 - Action 2.B.1.b. Improve Existing Local Transit Systems to Increase Ridership
 - Action 2.B.1.c. Expand and Improve Bicycle and Pedestrian Infrastructure
- Action 2.B.2. Increase the Use of Alternative Modes for Inter-city Travel
 - Action 2.B.2.a. Establish Rail Service (passenger and freight) throughout NH
 - Action 2.B.2.b. Implement Passenger Rail Service from Massachusetts to Nashua and Manchester
 - Action 2.B.2.c. Sustain and Improve Current Passenger and Freight Rail Service
 - Action 2.B.2.d. Add High-Occupancy Vehicle (HOV) Lanes
 - Action 2.B.2.e. Expand Park-n-Ride infrastructure
 - Action 2.B.2.f. State Financial Support of Transportation Management Associations (TMA)
 - Action 2.B.2.g. Expand Inter-City Bus Service
 - Action 2.B.2.h. Improve Existing Inter-City Bus Service to Increase Ridership

TLU Goal 2.C - Develop Land Use Patterns that Support a Balanced Multi-Modal Transportation System and Disincent VMT

- Action 2.C.1a Implement a GHG-Impact Fee for New Development Projects
- Action 2.C.1b Adjust State Permit Review Processes, Standards, and Fees To Encourage Low-GHG Impact Development
- Action 2.C.2 Adopt Strong Incentives for Municipalities to Adopt Zoning for Higher-Density, Mixed Use, Walkable Development around Transit Stations
- Action 2.C.3 Develop Model Zoning for Higher-Density, Mixed Use, Walkable Development and Encourage Municipal Adoption
- Action 2.C.4. Direct State Funding and Grants Toward Communities with Areas Targeted for Low GHG-Impact Development
- Action 2.C.5 Apply/Enable a Two-Rate Tax Structure Based on GHG-impact
- Action 2.C.6 Promote Availability and Use of Location Efficient Mortgages
- Action 2.C.7 Establish State/Regional Administrative Entity(ies) to Facilitate Transfer of Development/Density Transfer Fee Programs
- Action 2.C.8 Continue/Expand Marketing, Education and Technical Assistance to Municipalities

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New Hampshire Climate Change Policy Task Force Government Leadership and Action (GLA) Working Group Interim Report

The following document contains the *proposed final list of goals and actions* that will be developed and submitted by the **Government Leadership and Action** Working Group for consideration by the Climate Change Policy Task Force.

Facilitators: Tom Niejadlik (thomas.niejadlik@des.nh.gov or 271-6865);
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Goal and Action List

GLA Goal 1 - State Leading-by-Example

- Action 1.1 Establishment of an energy consumption and green house gas emission baseline for state government
- Action 1.2 Establishment of an Energy Management Unit
- Action 1.3 Energy Savings Funding Program

GLA Goal 2 - Reduce energy use in government buildings [by 20 % by 2020 and by 50 % by 2050]

- Action 2.1 New Construction and Renovations: State Defined High Performance Public Building Standards/LEED Rating
- Action 2.2 Existing Buildings
 - Action 2.2.1 Energy Star Rating
 - Action 2.2.2 Re-Commissioning of Existing Buildings
 - Action 2.2.3 Leased Space
- Action 2.3 Procurement Policies
- Action 2.4 Energy Reduction Measures for State Employees and Facilities
- Action 2.5 Building Automation Systems

GLA Goal 3 - Increase Use of Renewable Energy Sources and Energy Efficient Technologies & Projects [50 % of energy sources to be from renewables by 2050]

- Action 3.1 State Siting/Promoting Renewable Energy and Energy Efficiency Technology Projects on State Properties
- Action 3.2 Renewable Electricity Purchase
- Action 3.3 Use of Renewables for Building Heat and Hot Water

GLA Goal 4 - Reduce the Emissions per mile Traveled of State vehicles

- Action 4.1 State Vehicles Procurement Policy
 - Action 4.1.1 Fuel Economy Standards
 - Action 4.1.2 Right-Sizing
 - Action 4.1.3 Increase Use of Cleaner Fuels & Advanced Technologies
 - Action 4.1.4 State Employee Low Emissions-Per-Mile Vehicle Purchase Program
- Action 4.2 – Reduce Emissions from Existing Vehicle Stock
 - Action 4.2.1 Reduce diesel particulate emissions through use of retrofit devices in state fleet
 - Action 4.2.2 Reduce diesel particulate emissions in state contracts

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Action 4.3 Driver Behavior

Action 4.3.1 State Vehicle Operation

Action 4.3.2 Maximize Alternative Transportation Utilization

GLA Goal 5 - Reduce Fuel Consumption in State Fleet

Action 5.1 Employee Vehicle Miles Traveled Reduction

Action 5.1.1 Commuting Trip Reduction Initiative

Action 5.1.1.1 Employee Travel Reduction

Action 5.1.1.2 State Leadership in Transportation Management Associations (TMA)

Action 5.1.1.2 Satellite Offices

Action 5.1.1.3 State Employee Rideshare

Action 5.1.1.4 Parking Incentives

Action 5.1.2 State Business Related Travel

Action 5.1.3 State Office Locations